



MATERIAL SAFETY DATA SHEET

139

AUG 14 1980

(Approved by U.S. Department of Labor as "essentially similar" to FORM OSHA-20)

SECTION I IDENTIFICATION OF PRODUCT

JAN 15 1982

MANUFACTURER'S NAME Tenneco Chemicals, Inc. Intermediates Division		EMERGENCY TELEPHONE NO. (301) 778-1991
ADDRESS Turner Place, P.O. Box 365 Piscataway, New Jersey 08854		
TRADE NAME AND SYNONYMS Anderol [®] Synthetic Lubricating Oil 401D, 402, 414, 416, 455, 456, 458, 465, 466, 471, 472,		
CHEMICAL NAME AND SYNONYMS Organic Acid Esters with Additives		501, 774
CHEMICAL FAMILY Esters	MOLECULAR FORMULA Not applicable	MOL. WT.

SECTION II HAZARDOUS COMPONENTS OF MIXTURES

COMPONENT	%	THRESHOLD LIMIT VALUE	COMPONENT	%	THRESHOLD LIMIT VALUE
		(UNITS)			(UNITS)
None established					

SECTION III PHYSICAL DATA

APPEARANCE AND ODOR Light amber liquid, slight mild odor	
BOILING POINT (DEGREES FAHRENHEIT) Above 575°F.	MELTING POINT (DEGREES FAHRENHEIT) Below minus 25°F.
VAPOR PRESSURE (MM. OF MERCURY) Less than 0.1mm at 300°F.	SPECIFIC GRAVITY (WATER = 1) 0.91-0.93 at 77°/77°F.
VAPOR DENSITY (AIR = 1) Not applicable	PERCENT VOLATILE (BY WEIGHT) Not volatile
SOLUBILITY IN WATER Negligible	EVAPORATION RATE (BUTYL ACETATE = 1) Not applicable

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SPECIFY METHOD) (DEGREES FAHRENHEIT) Above 400°F. COC ASTM D-92	FLAMMABLE LIMITS (PERCENT BY VOLUME) Not applicable	LOWER	UPPER
FIRE EXTINGUISHING MEDIA Water spray, foam, CO ₂ or dry chemical.			
SPECIAL FIRE-FIGHTING PROCEDURES Use water spray or fog. Avoid spreading liquid and fire by water flooding.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Burning may produce small amounts of toxic fumes. Avoid exposure.			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

None has been established.

EFFECTS OF OVEREXPOSURE None expected in ordinary use. Prolonged or repeated contact with the skin or contact with the eyes may cause irritation. Prolonged breathing of concentrated mist from material at high temperatures may irritate respiratory passages. Low toxicity by ingestion.

EMERGENCY AND FIRST AID PROCEDURES

Ordinary personal hygiene. Wash skin with soap and water.
Flush eyes with plenty of water.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None in ordinary use.
INCOMPATIBILITY (Materials to avoid) Can react with strong oxidants. Hydrolyzed by strong acids or alkalis. May soften some plastic or paint surfaces.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Burning may produce small amounts of toxic fumes or nitrogen oxides.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None in ordinary use.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Cover with inert absorbent material and remove to disposal container. Clean area with water and detergent if slippery.

WASTE DISPOSAL METHOD

Incinerate in a suitable furnace or bury in an approved landfill.
Observe local, state and federal regulations and do not contaminate any streams, lakes or ponds.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not ordinarily required. In case of prolonged exposure to concentrated hot fumes or mist, use airline respirator.

VENTILATION	LOCAL EXHAUST Not ordinarily required.	SPECIAL None.
	MECHANICAL (General) Acceptable	OTHER None

PROTECTIVE GLOVES

Gloves to minimize skin contact.

EYE PROTECTION

Goggles for splash hazard.

OTHER PROTECTIVE EQUIPMENT

Wash contaminated clothing before re-use.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Ordinary care in handling chemicals.

DATE May 25, 1973 Rev. 10-26-76	NAME AND TITLE T. R. Aalto, Manager, Product Safety Services	SHEET NUMBER 139
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